

**1 Identification****Product identifier****Trade name:** Blasoprotect MV 37 Spray**Article number:** 00137-01SP**Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

**Application of the substance / the preparation:**

For industrial use

Anticorrosion agent

**Details of the supplier of the safety data sheet****Manufacturer / Supplier:**

BLASER SWISSLUBE AG

Winterseistrasse 22

CH-3415 Hasle-Rüegsau

Switzerland

Tel.: +41 (0)34 460 01 01

E-mail: contact@blaser.com

Blaser Swissslube (S) Pte. Ltd.

No. 1 Yishun Industrial Street 1

A'Posh Bizhub 05-08

Singapore 768 160

Phone: +65 (0) 6339 6881

Fax: +65 (0) 6339 6151

E-mail: singapore@blaser.com

**Further information obtainable from:**

Product Safety Department

E-mail: sds@blaser.com

**Emergency telephone number:**

For advice on chemical emergencies, spillages, fires or exposures: +65 3158 1074 (24h/7d)

**2 Hazards identification****Classification of the substance or mixture:**

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

STOT SE 3 H336 May cause drowsiness or dizziness.

**Label elements****GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).**Hazard pictograms**

GHS02 GHS07

**Signal word** Danger**Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

H336 May cause drowsiness or dizziness.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards** None

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**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

## 3 Composition/information on ingredients

**Chemical characterisation: Mixtures****Description:**

Mixture of substances listed below with nonhazardous additions.

Active substance with propellant

**Declarable, or hazardous components:****CAS-no.**

|   |  |          |
|---|--|----------|
| CAS: 64742-48-9<br>EC number: 919-857-5 | Hydrotreated heavy naphtha (petroleum)<br>Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336   | >50-<80% |
| CAS: 74-98-6<br>EINECS: 200-827-9       | propane<br>Press. Gas C, H280  | >10-<20% |
| CAS: 106-97-8<br>EINECS: 203-448-7      | butane, pure<br>Press. Gas C, H280   | >10-<20% |
|   | Alkenyl amines, neutralised *<br>STOT RE 1, H372; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 | <1%      |

**Additional information:**

\* Neutralisation product: Equilibrium of Ionic Pairs according to REACH Annex V, 4.

For the wording of the listed hazard phrases refer to section 16.

## 4 First-aid measures

**Description of first aid measures****After inhalation:** Not applicable, as the concentrate is not volatile.**After skin contact:** Generally the product does not irritate the skin.**After eye contact:** Rinse opened eye for several minutes under running water.**After swallowing:** If symptoms persist consult doctor.**Information for doctor:****Most important symptoms and effects, both acute and delayed** No further relevant information available.**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## 5 Fire-fighting measures

**Extinguishing media****Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.**For safety reasons unsuitable extinguishing agents:** Water with full jet**Special hazards arising from the substance or mixture** No further relevant information available.**Advice for firefighters****Protective equipment:** No special measures required.**Additional information** Cool endangered receptacles with water spray.

## 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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Do not allow to enter sewers/ surface or ground water.

**Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

**Handling:**

**Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Observe the general safety regulations when handling chemicals.

**Information about fire - and explosion protection:**

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

**Conditions for safe storage, including any incompatibilities**

**Storage:**

**Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Observe official regulations on storing packagings with pressurised containers.

**Information about storage in one common storage facility:** Store away from oxidising agents.

**Further information about storage conditions:**

Protect from heat and direct sunlight.

Keep container tightly sealed.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Optimal storage temperature between -15°C and +40°C.

Duration of storage: In original container, at least 3 years.

**Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see item 7.

**Control parameters**

**Ingredients with limit values at the workplace:**

**106-97-8 butane, pure**

PEL (Singapore) Long-term value: 1900 mg/m<sup>3</sup>, 800 ppm

WSH (Singapore) Long-term value: 1900 mg/m<sup>3</sup>, 800 ppm

**Additional information:** The lists valid during the making were used as basis.

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:** Wash hands before breaks and at the end of work.

**Respiratory protection:** Not required.

**Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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**Material of gloves**

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the resultant standard EN 374.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

The break through, among others, depending on material density and the type of glove and therefore must be determined in each individual case.

Gloves must be inspected prior to use. Replace when worn!

Impervious gloves: nitrile rubber, minimum thickness of 0.3 mm.

**Penetration time of glove material**

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Eye protector with side protection (framed eyeglasses) EN 166.

**Body protection:** Protective work clothing

## 9 Physical and chemical properties

**Information on basic physical and chemical properties**
**General Information**
**Appearance:**

|                         |                 |
|-------------------------|-----------------|
| <b>Form:</b>            | Aerosol         |
| <b>Colour:</b>          | Yellowish       |
| <b>Odour:</b>           | Solvent-like    |
| <b>Odour threshold:</b> | Not determined. |

**pH-value:** Not applicable.

**Change in condition:**

|   |   |
|---|---|
| <b>Melting point/freezing point:</b>            | Not applicable  |
| <b>Initial boiling point and boiling range:</b> | <-40 °C (DIN 51751 / ASTM D86)<br>Active substance: 200°C (DIN 51751 / ASTM D86)<br>Not applicable, as aerosol.<br>>392 °F (DIN 51751 / ASTM D86) |
| <b>Drip point:</b>                              | Not applicable  |
| <b>Pour point:</b>                              | Active substance: <-20°C (ISO 3016 / ASTM D97)<br><-20 (ISO 3016 / ASTM D97)  |

**Flash point:** -97 °C (ISO 2592 / ASTM D92)  
Active substance: 40°C. (ISO 2592 / ASTM D92)  
Not applicable, as aerosol.  
104 °F (ISO 2592 / ASTM D92)

**Flammability (solid, gas):** Extremely flammable liquefied gas.  
Not applicable.

**Ignition temperature:** Active substance: >350°C (DIN 51794 / ASTM E659)  
>350 (DIN 51794 / ASTM E659)

**Decomposition temperature:** Not determined.

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

**Explosion limits (@1013 mbar):**

|                             |                 |
|-----------------------------|-----------------|
| <b>Lower:</b>               | 0.6 Vol %       |
| <b>Upper:</b>               | 10.9 Vol %      |
| <b>Oxidising properties</b> | Not applicable. |

**Density at 20 °C:** 0.8 g/cm<sup>3</sup> (DIN 51757 / ASTM D1217)  
Active substance: 0.80 g/cm<sup>3</sup> @ 20°C (DIN 51757 / ASTM D1217)

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|  |   |
|--|---|
| <b>Vapour density</b>                          | Not applicable.   |
| <b>Evaporation rate</b>                        | Not determined.   |
| <b>Solubility in / Miscibility with water:</b> | Not applicable.   |
| <b>Partition coefficient: n-octanol/water:</b> | Insoluble.  |
| <b>Viscosity:</b>                              | Not determined.   |
| <b>Kinematic:</b>                              | Active substance: 1.0 mm <sup>2</sup> /s @ 40°C (ISO 3104 / ASTM D445)<br>1.0 mm <sup>2</sup> /s (ISO 3104 / ASTM D445) |
| <b>Other information:</b>                      | safety relevant data, which has to be considered as product specifications.   |

## 10 Stability and reactivity

**Reactivity** None known if used as directed.  
**Chemical stability** Stable under recommended storage conditions.  
**Possibility of hazardous reactions** Reacts with strong oxidising agents.  
**Conditions to avoid** No further relevant information available.  
**Incompatible materials:** No further relevant information available.  
**Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)

## 11 Toxicological information

### Information on toxicological effects

#### Acute toxicity

#### LD/LC50 values relevant for classification:

#### ATE (Acute Toxicity Estimates)

|            |      |                  |
|------------|------|------------------|
| Inhalative | LD50 | 4,315 mg/L (rat) |
|------------|------|------------------|

#### 64742-48-9 Hydrotreated heavy naphtha (petroleum)

|      |      |                    |
|------|------|--------------------|
| Oral | LD50 | >5,000 mg/kg (rat) |
|------|------|--------------------|

|        |      |                    |
|--------|------|--------------------|
| Dermal | LD50 | >5,000 mg/kg (rab) |
|--------|------|--------------------|

#### 106-97-8 butane, pure

|            |      |                |
|------------|------|----------------|
| Inhalative | LD50 | 658 mg/L (rat) |
|------------|------|----------------|

#### Primary irritant effect:

**Skin corrosion/irritation** No irritant effect.

**Serious eye damage/irritation** No irritating effect.

**Respiratory or skin sensitisation** No sensitising effects known.

## 12 Ecological information

### Toxicity

#### Aquatic toxicity:

#### 64742-48-9 Hydrotreated heavy naphtha (petroleum)

|          |  |
|----------|--|
| EC50/96h | >1,000 mg/L (Oncorhynchus mykiss) (OECD 203) |
|----------|--|

|          |                                       |
|----------|---------------------------------------|
| EC50/48h | 1,000 mg/L (Daphnia magna) (OECD 202) |
|----------|---------------------------------------|

|          |                                |
|----------|--------------------------------|
| EC50/72h | >1,000 mg/L (Algae) (OECD 201) |
|----------|--------------------------------|

**Persistence and degradability** The product is highly volatile, therefore the biodegradability can not be determined.

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**Behaviour in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:** Do not allow product to reach ground water, water course or sewage system.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.



## 13 Disposal considerations

**Waste treatment methods****Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

|  |  |
|--|--|
| <b>UN-Number</b><br>ADR, IMDG, IATA  | UN1950   |
| <b>UN proper shipping name</b><br>ADR<br>IMDG<br>IATA  | 1950 AEROSOLS<br>AEROSOLS<br>AEROSOLS, flammable |
| <b>Transport hazard class(es)</b><br>ADR   |  |
|   |  |
| <b>Class</b><br><b>Label</b>   | 2.5F Gases.<br>2.1                               |
| <b>IMDG, IATA</b>  |  |
|   |  |
| <b>Class</b><br><b>Label</b>   | 2.1 Gases.<br>2.1                                |
| <b>Packing group</b><br>ADR, IMDG, IATA  | Not applicable<br>Not regulated                  |
| <b>Environmental hazards:</b><br><b>Marine pollutant:</b>  | No   |
| <b>Special precautions for user</b><br><b>Hazard identification number (Kemler code):</b><br><b>EMS Number:</b><br><b>Segregation groups</b> | Warning: Gases.<br>-<br>F-D,S-U<br>Alkalis       |

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|   |   |
|---|---|
| <b>Stowage Code</b>   | SW1 Protected from sources of heat.<br>SW2 Clear of living quarters.  |
| <b>Segregation Code</b>   | SG69 For AEROSOLS with a maximum capacity of 1 litre:<br>Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.<br>For AEROSOLS with a capacity above 1 litre:<br>Segregation as for the appropriate subdivision of class 2.<br>For WASTE AEROSOLS:<br>Segregation as for the appropriate subdivision of class 2. |
| <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.   |
| <b>Transport/Additional information:</b>                                  |   |
| <b>ADR</b>  |   |
| Limited quantities (LQ)   | 1L  |
| Excepted quantities (EQ)  | Code: E0<br>Not permitted as Excepted Quantity  |
| <b>Transport category</b>   | 2   |
| <b>Tunnel restriction code</b>  | D   |
| <b>IMDG</b>   |   |
| Limited quantities (LQ)   | 1L  |
| Excepted quantities (EQ)  | Code: E0<br>Not permitted as Excepted Quantity  |
| <b>IATA</b>   | IATA Dangerous Goods Regulation (DGR): latest edition   |
| <b>UN "Model Regulation":</b>   | UN 1950 AEROSOLS, 2.1   |

## 15 Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Poisons Act - Schedule 1

None of the ingredients are listed.

#### Poisons Act - Schedule 2, Group II

None of the ingredients are listed.

#### Health Products Act - First Schedule - Psychotropic Substances

None of the ingredients are listed.

GHS label elements CLP/GHS label elements are issued under section 2.

#### Chemical safety assessment

Seveso category P3a FLAMMABLE AEROSOLS

Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

#### National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

#### Other regulations, limitations and prohibitive regulations

##### Substances of very high concern (SVHC) according to REACH, Article 57

This preparation does not contain any SVHC ("Substances of Very High Concern")

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Regulations / approvals / listings:**

Information on REACH registration numbers in section 3:

If no REACH registration numbers on substances in section 3 are mentioned, then they are exempt from the REACH registration requirements (e.g. polymers).

**RoHS:**

The product is compliant with European Directives 2015/863/EC, 2011/65/EC, 2002/95/EC, WEEE 2002/96/EC, 2003/11/EC, 2005/53/EC and RoHS.

The following substances ARE NOT contained:

Pentabromodiphenylether, Octabromodiphenylether, polybrominated diphenylether (PBDE) and / or polybrominated biphenyls (PBB), Bis(2-ethylhexyl)phthalate (DEHP), Benzylbutylphthalate (BBP), Dibutylphthalate (DBP), Diisobutylphthalate (DIBP);  
lead or it's compounds, cadmium or it's compounds, mercury or it's compounds, chromium Cr<sup>6+</sup>-compounds.

**TSE/BSE:**

This product adheres to the standards of TSE/BSE-free products, according to European Community directives 93/42/EEC and 2003/32/EC.

Materials and/or synthetically modified materials which are of animal origin from bovine, ovine, goats, cats, dogs, deer, elk and/or mink, are NOT included in this product.

This product is entirely free from latex containing materials.

**Relevant phrases**

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

**Department issuing SDS:** Product Stewardship

**Contact:** Mr. Chen + Mr. Feller

**Editor's notice:**

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.

**Abbreviations and acronyms:**

ICAO: International Civil Aviation Organisation

RoHS: Restriction of Hazardous Substances

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

ISO: International Organisation for Standardisation

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

TLV: Threshold Limit Value

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PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
ATE: Acute Toxicity Estimate  
Aerosol 1: Aerosols – Category 1  
Press. Gas C: Gases under pressure – Compressed gas  
Flam. Liq. 3: Flammable liquids – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

**\* Data compared to the previous version altered.**

The asterisk (\*) on the left side indicate the respective changes from the previous version.

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